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ABB Patent Attorney c/o ABB Schweiz AG Intellectual Proper Brown Boveri Strass 5400 Baden SUISSE	rty (CH-L(se 6 Frist	02.03	SB 79	1	
	Agendu	6. 135. 2003	(i.) (i	tuchen Da	tum/Date 29.11.02
Zeichen/Ref./Réf. 02/063 EP	······································	Anmeldung N		Demands/r	n°/Patent Nr./Patent No/Brevet n°.

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

X abstract

X title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

3

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





EUROPEAN SEARCH REPORT

Application Number EP 02 40 5605

Category	Citation of document with it of relevant pass	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF TH APPLICATION (Int.CI.7)
D,A	DE 100 14 197 A (AB 27 September 2001 (B RESEARCH LTD)	1-6	H01L39/16
A	PATENT ABSTRACTS OF vol. 017, no. 307 (11 June 1993 (1993- & JP 05 022855 A (M CORP), 29 January 1 * abstract * -& JP 05 022855 A (CORP) 29 January 19 * paragraph '0008! figures 1-4 *	E-1379), 06-11) ITSUBISHI ELECTRIC 993 (1993-01-29) MITSUBISHI ELECTRIC 93 (1993-01-29)	1-4	
A	29 December 1977 (1	STUNGSTECHNIK BERLIN)	1-4	TECHNICAL FIELDS SEARCHED (Int.CI.7
A	WO 02 47180 A (SIEM ET AL) 13 June 2002 * page 1, line 12 - * page 8, line 15 - * figures 3,6 *	(2002-06-13) page 3, line 20 *	1,6	H01L H02H
	The present search report has t			
	Place of search THE HAGUE	Date of completion of the search 22 November 2002	Kön	Examiner f, C
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another interest of the same category notogical backgroundwritten disclosure	T : theory or principle E : earlier patent doct after the filing date D : document cited in L : document cited for	underlying the is ument, but public the application r other reasons	nvention shed on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 40 5605

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-11-2002

Patent document cited in search report	Publication date		Patent family member(s)	Publicatio date
DE 10014197 / A	27-09-2001	DE .	10014197 A1	27-09-200
JP 05022855A	29-01-1993	NONE		
DE 2712990 / A	29-12-1977	DD DE	126232 A1 2712990 A1	06-07-197 29-12-197
WO 0247180 A	13-06-2002	DE WO	10061340 A1 0247180 A2	06-06-200 13-06-200
more details about this annex : see C				

Translation of the explanations ("Erklärungen") of enclosure 2 ("Anlage 2") of the search report of the German Patent Office ("Deutsches Patentamt") explaining the symbol letters stating the relevancy of the cited references:

Explanations

Column 1: Category

ij.

It means:

- X: References which alone question either novelty or inventiveness
- Y: References which question inventiveness together with other references
- A: State of the art in general, technological background
- O: Non-written disclosure, e.g. lecture being published in a reference dated later than the filing date or priority date, and having been held before the filing or priority date
- P: References published prior to the filing date but later than the priority date claimed
- T: References published after the filing date or priority date, and not being in conflict with the application, which concern the theory of the invention and which are cited to better understand the invention or to prove that the principle or theory underlying the invention could be wrong
- E: Prior applications according to § 3 par. 2 PatG (German Patent Statute) (for searches according to § 43 PatG); prior patent applications or prior utility models according to § 15 GbmG (German Utility Model Statute) (for searches according to § 7 GbmG)
- D: References already cited in the patent application
- L: References cited for special reasons, e.g. to establish the publication date of another citation or if there exist doubts on priority claim(s)

In searches according to § 7 GbmG only categories "A" and "E" are indicated.

Column 2: Cited references / illustrations

Veröff: Date of publication of a reference published in the priority period

- nr: Not searched, since belonging to well known state of the art, or not searchable
- =: References which are member of the same patent family or which are referenced by lectures or abstracts
- "-": Nothing ascertained

Column 3: Concerned claims

In this column, the claims allocated to the relevant passages of column 2 are indicated.